

Dell™ Systems

Information Update

信息更新

Mise à jour des informations

Aktuelle Informationen

アップデート情報

정보 업데이트

Actualización de la información



Notes, Notices, and Cautions

 **NOTE:** A NOTE indicates important information that helps you make better use of your computer.

 **NOTICE:** A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.**

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This document provides updated information for your system on the following topics:

- Microprocessor
- Flashing the system BIOS
- Installing Red Hat Linux Advanced Server 2.1
- Integrated Gigabit Ethernet NICs
- COM2 availability
- Installing a microprocessor
- Installing or removing a ROMB backup battery
- Connecting external SCSI devices
- System message update

Microprocessor

Your system contains up to two Intel® Xeon™ 400-MHz front-side bus microprocessors. These processors provide a minimum internal operating frequency of at least 2.4 GHz, with a front-side bus speed of 100 MHz, an address bus speed of 200 MHz (doubled address transfer rate), and a data bus speed of 400 MHz (quadrupled data transfer rate).

The system's DDR SDRAM memory modules, which are rated for 266-MHz operation, run at 200 MHz in a system using a 400-MHz FSB processor.

Flashing the System BIOS

If you need to flash the system's BIOS, go to the Dell Support website at support.dell.com and download the most current BIOS available for your system. Do not use the system BIOS that was provided on your *Dell OpenManage Server Assistant* CD.

Installing Red Hat Linux Advanced Server 2.1

Dell recommends installing Red Hat Linux Advanced Server 2.1 using the *Server Assistant* CD, which ensures proper loading of all the drivers and avoids use of the driver update diskette. If you intend to install Red Hat Linux using the driver update diskette instead of the *Server Assistant* CD, ensure that you download the latest drivers for Red Hat Linux Advanced Server 2.1 from the Dell Support website at support.dell.com.

The updated drivers on the Dell Support website include the latest script file, which prevents future erroneous error messages by ensuring that the drivers for the embedded SCSI controller are placed in the correct location.

Run the script file after installing the operating system. See the readme file included with the updated drivers for more information about running the script file.

Integrated Gigabit Ethernet NICs

Because the two integrated Gigabit Ethernet NICs are not supported on systems with a 400 MHz front-side bus speed, the NIC connectors on this system have been covered. Network access for 400-MHz systems is only available through an add-in NIC preinstalled in one of the PCI slots.

COM2 Availability

COM2 circuitry exists on the system board, but it is reserved for use by an optional ERA/O controller. Although COM2 may be reported as available under certain operating systems, COM1 is the only serial port that is available on your system.

Installing a Microprocessor

Always use the new heat sink that ships with a microprocessor upgrade kit. Thermal interface grease on the underside of the heat sink is critical to maintaining optimum contact between the heat sink and the microprocessor. Used or older heat sinks may not have enough grease remaining on it to ensure proper contact.

Installing or Removing a ROMB Backup Battery

If an ERA/O controller is installed under the ROMB backup battery, remove the SCSI backplane board before removing or installing the battery, and replace the SCSI backplane board after removing or installing the battery.



CAUTION: Before you perform this procedure you must turn off the system and disconnect it from its power source. See your *System Information Guide* for complete information about safety precautions, working inside the computer, and protecting against electrostatic discharge.



NOTE: The following two procedures assume that you have already removed the system covers and performed the initial steps of "Installing a ROMB Card" or "Removing a ROMB Card" in your *Installation and Troubleshooting Guide*.

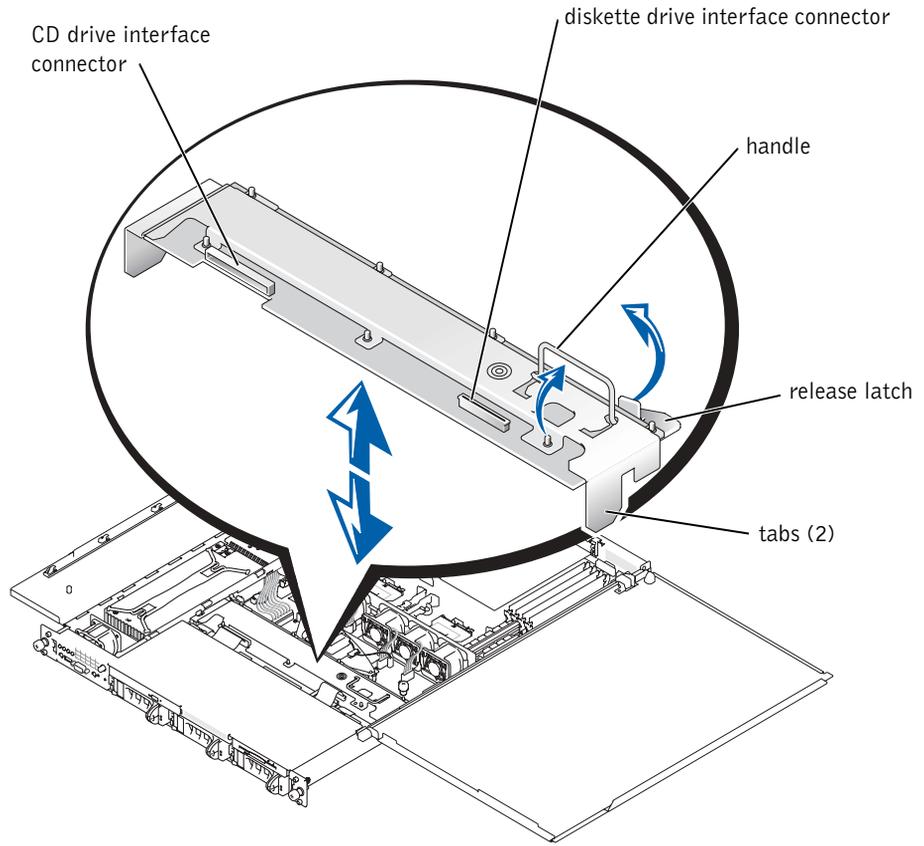
Removing the SCSI Backplane Board

- 1 Pull each hard-drive carrier partially out of its slot, approximately 2.5 cm (1 inch).
- 2 Disconnect the diskette-drive interface cable from the FLOPPY connector on the backplane board. See Figure 1-1.
- 3 Disconnect the CD drive interface cable from the CD_ROM connector on the backplane board. See Figure 1-1.
- 4 Press the release latch in toward the backplane board and use the handle to pull the board out of its connector and up out of the chassis. See Figure 1-1.

Installing the SCSI Backplane Board

- 1 Insert the SCSI backplane board into the chassis:
 - a Fit the metal tabs (one tab at each end of the backplane) into the slots in the chassis wall and lower the backplane into the chassis, ensuring that the CD and diskette drive interface cables are not caught under the backplane. See Figure 1-1.
 - b Press down firmly over the handle to seat the backplane in its connector.
- 2 Pivot the release latch out into the securing slot in the chassis.
- 3 Connect the CD drive interface cable to the CD_ROM connector on the backplane board.
- 4 Connect the diskette-drive interface cable to the FLOPPY connector on the backplane board.
- 5 Press all installed hard drives firmly back into the SCSI connectors on the backplane.

Figure 1-1. SCSI Backplane Board



Connecting External SCSI Devices

You can connect external SCSI devices to the external SCSI connector on the system's back panel or to an installed SCSI controller card.

System Message Update

The system messages shown in Table 1-1 have been added or updated.

Table 1-1. System Messages

Message	Causes	Corrective Actions
Caution! NVRAM_CLR jumper is installed on system board - please run SETUP program.	NVRAM_CLR jumper is installed.	Remove the NVRAM_CLR jumper. See Figure A-2 in the <i>Installation and Troubleshooting Guide</i> for jumper location.
Invalid configuration information - please run SETUP program.	Invalid configuration settings in the System Setup program, or the system battery is faulty.	Check the System Setup configuration settings. See "Using the System Setup Program" in your <i>User's Guide</i> . Replace the battery. See "Replacing the System Battery" in the <i>Installation and Troubleshooting Guide</i> .
This processor system bus speed is unknown. System halted!	The installed microprocessor is not supported by the system.	Reboot the system. If you receive beep code 4-4-3 (processor frequency mismatch), replace the installed microprocessor(s) with microprocessor(s) supported by your system. See "Microprocessors" in the <i>Installation and Troubleshooting Guide</i> . If a beep code does not occur at system boot, turn off the system, install the NVRAM_CLR jumper, and reboot the system. See Figure 5-2 in the <i>Installation and Troubleshooting Guide</i> for jumper locations.

Table 1-1. System Messages (continued)

Message	Causes	Corrective Actions
<p>Processor 1 is a 533-MHz system bus processor.</p> <p>Processor 2 is a 533-MHz system bus processor.</p> <p>This system only supports 400-MHz system bus speed.</p> <p>System halted!</p>	<p>Two 533-MHz microprocessors are installed. This system supports only Intel Xeon 400-MHz front-side-bus processors.</p>	<p>Reboot the system. If you receive beep code 4-4-3 (processor frequency mismatch), replace both processors with Intel Xeon 400-MHz front-side-bus processors. See "Microprocessors" in the <i>Installation and Troubleshooting Guide</i>.</p> <p>If a beep code does not occur at system boot, turn off the system, install the NVRAM_CLR jumper, and reboot the system. See Figure 5-2 in the <i>Installation and Troubleshooting Guide</i> for jumper locations.</p>
<p>Processor 1 is a 533-MHz system bus processor.</p> <p>This system only supports 400-MHz system bus speed.</p> <p>System halted!</p>	<p>A 533-MHz microprocessor is installed in processor slot 1. This system supports only Intel Xeon 400-MHz front-side-bus processors.</p>	<p>Reboot the system. If you receive beep code 4-4-3 (processor frequency mismatch), replace processor 1 with an Intel Xeon 400-MHz front-side-bus processor. See "Microprocessors" in the <i>Installation and Troubleshooting Guide</i>.</p> <p>If a beep code does not occur at system boot, turn off the system, install the NVRAM_CLR jumper, and reboot the system. See Figure 5-2 in the <i>Installation and Troubleshooting Guide</i> for jumper location.</p>